

CLAIMS

1. The device of object detection and identification by their gamma, X-ray and neutron radiations including the detection unit, preprocessing unit with a display, processor, input unit with communication channel with expert system *with the distinction* that the detection unit is realized separately with microcontroller and data transfer deviceæ the preprocessing unit is supplied with the channel for data reception from the detection unit, and the processor includes the spectrums analysis unit.
2. The device according to item 1 *with the distinction* that the communication channel with objects identification expert system is additionally equipped with the channel for two-way voice and video information transfer.
3. The device according to item 1 *with the distinction* that the of devices Mobile Device type, for example, smartphone, or Notebook are used as preprocessing unit.
4. The device according to item 1 *with the distinction* that the preprocessing unit is additionally supplied with graphic information input, for example, scanner.
5. The device according to any of items 1 *with the distinction* that several detection units are installed that are interacting with the preprocessing unit, each of them is supplied with an identification marker.
- 6 The device according to any of items 1 *with the distinction* that the detection unit and preprocessing unit are constructively made in one housing, at that the detection unit is replaceable.
7. The system of object identification by their gamma, X-ray and neutron radiation including the detection unit and information processor, made up of two hierarchic parts, one of which is the expert system, that is located in the remote computer, and they are interconnected by communication channel *with the distinction* that expert system is connected by communication channel with national and/or departmental system of the emergency warning system activated in the case of critical

situations.

8. The system of object identification of facilities according to item 7 *with the distinction* that a man is presented in the expert system— an expert in the field of objects identification by their radiation.

5 9. The system of object identification of facilities according to item 7 or 8 *with the distinction* that the sensor or preprocessing unit are additionally supplied by GPS receiver or its analog for determination of radiation source geographic location.

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